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Advanced Technology in Internal Combustion Engines

Guest Editor:

Prof. Dr. Domenico Laforgia

Department of Engineering for
Innovation, University of Salento,
Via per Arnesano, 73100 Lecce,
Italy

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Message from the Guest Editor

Despite the growing market share of electrified vehicles, it is universally recognized that the thermal engine will continue to play the role of the prime mover for coming decades in the transportation sector. However, transportation is a sector with some of the greatest impacts on air pollution (especially in urban areas), oil depletion, and global warming. Therefore, research must be conducted to reduce its environmental impact and, most of all, its carbon footprint associated with its lifecycle. Technologies for improving breathing, combustible mixture preparations, as well as alternative combustion concepts, alternative fuels, after-treatment systems for regulating polluting emissions abatement, e-fuels, waste-heat-recovery technologies (such as organic Rankine cycles, turbocharging, thermoelectric generators), and mild electrification, to cite a few examples, are all envisaged as directions for continued investment to reach the aforementioned goals in transport by land, sea, and air.

This Special Issue aims to offer a platform for sharing different experiences from academia and industries.



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Special Issue



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Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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